

麦子钱包 Eric



Substrate应用架构

DAPP应用

PolkadotJS-APP 网页钱包

Math Wallet 插件/APP钱包

Polkadot JS

Runtime Node (Polkadot / Kusama / ChainX / 你的应用链...)

Substrate



各个模块的说明

- Substrate:应用链框架,包含了各种模块,可以快速启动一个自定义的区块链 https://github.com/paritytech/substrate/
- Polkadot:基于Substrate的区块链,将来是波卡主网,目前Kusama实验网也基于这套代码
 https://github.com/paritytech/polkadot/
- PolkadotJS:与Substrate交互的JS框架 https://github.com/polkadot-js/api
- PolkadotJS-APP: React开发的基于PolkadotJS API的网页钱包 https://github.com/polkadot-js/apps

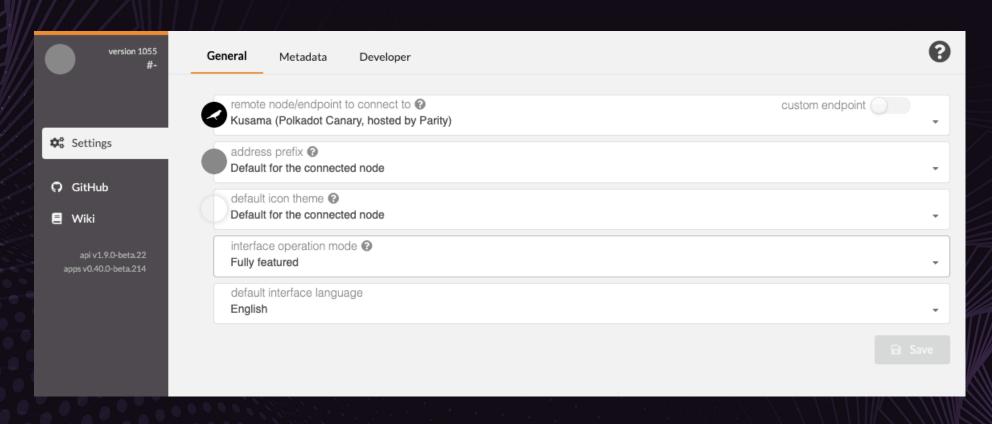


- Runtime 特定区块链可定制的部分
- Extrinsics 区块链的外部输入,也可理解为交易



PolkadotJS-APP 网页钱包配置和使用指南

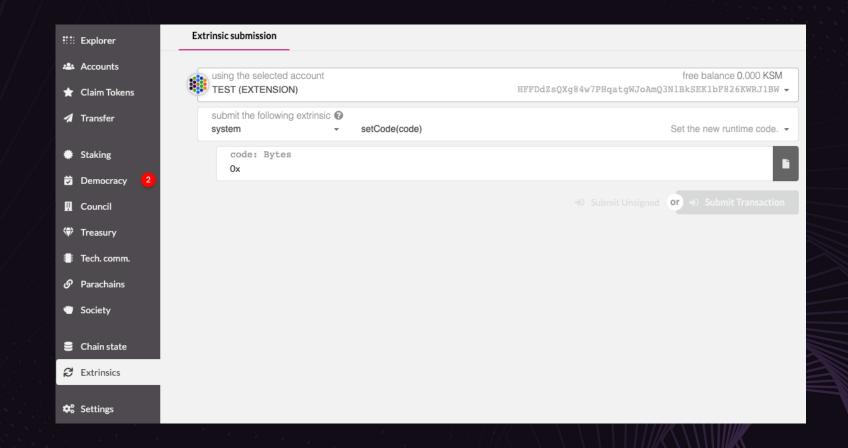
https://polkadot.js.org/apps/





PolkadotJS-APP 网页钱包配置和使用指南

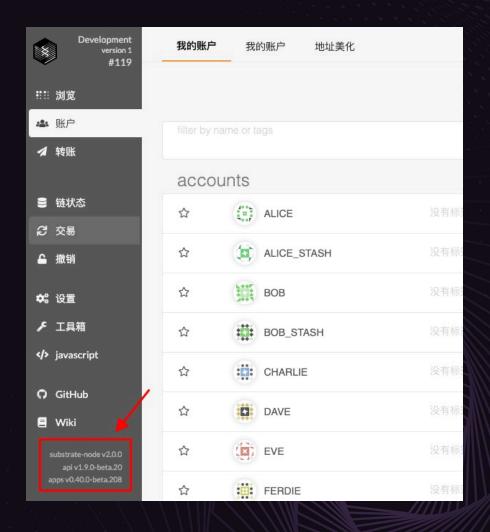
- 创建账号
- 发起转账
- Extrinsics
- Chain state





模块版本和兼容性

- 目前不管是 Substrate, Polkadot, PolkadotJS 还是 PolkadotJS-APP 都在快速迭代中,因此各个版本之间存在大量不兼容的情况
- 可以通过 PolkadotJS-APP 左下角查看 当前运行环境的版本
 - 第一行: node的版本
 - 第二行:PolkadotJS版本
 - 第三行:PolkadotJS-APP版本





Substrate Node 1.0

- Substrate Collectable Workshop Setup <u>https://substrate.dev/substrate-collectables-workshop</u>
- Node./target/release/substratekitties --dev
- Test http://app.substrate.cc

substrate-node v1.0.0 api v0.95.1 apps v0.36.0



Substrate Node 2.0

- Substrate 2.0 Node Template Setup <u>https://substrate.dev/docs/en/tutorials/creating-your-first-substrate-chain</u>
- Node./target/release/node-template --dev
- Testhttp://app2.substrate.cc

Substrate Node v2.0.0 api v1.2.0-beta.22 apps v0.40.0-beta.32



Substrate Playground

https://playground.substrate.dev/

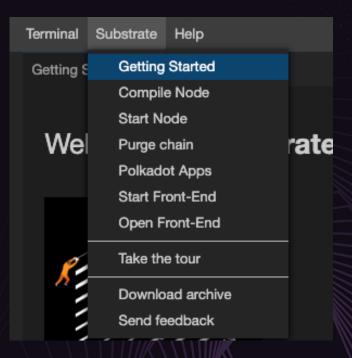
```
File Edit Selection View Go Debug Terminal Substrate Help
/home/workspace/substrate-front-end-
template/public
    substrate-front-end-template
     ▶ ■ .circleci
                                                      use frame_support::{decl_module, decl_storage, decl_event, dispatch::DispatchResult};
     ▶ ■ node modules
                                                      use system::ensure_signed;
     public
     ▶ 🖿 src
                                                      pub trait Trait: system::Trait {
       .env
                                                          // TODO: Add other types and constants required configure this module.
       .nvmrc
                                                          /// The overarching event type.
                                                          type Event: From<Event<Self>>> + Into<<Self as system::Trait>::Event>;
       III LICENSE
       package.json
       ■ README.md
                                                      // This module's storage items.
       yarn.lock
                                                      decl_storage! {
                                                          trait Store for Module<T: Trait> as TemplateModule {

    substrate-node-template

                                                              // Just a dummy storage item.

▲ lim runtime

                                                              // Here we are declaring a StorageValue, `Something` as a Option<u32>
       // `get(fn something)` is the default getter which returns either the stored
         lib.rs
                                                              Something get(fn something): Option<u32>;
         template.rs
        build.rs
        Cargo.toml
                                                      // The module's dispatchable functions.
     ▶ ■ scripts
                                                      decl module! {
     ▶ 🖿 src
                                                          /// The module declaration.
                                                          pub struct Module<T: Trait> for enum Call where origin: T::Origin {
     target
       .gitignore
                                                              // this is needed only if you are using events in your module
       build.rs
                                                              fn deposit_event() = default;
       Cargo.lock
```





Substrate Latest

• 下载代码和安装

git clone https://github.com/paritytech/substrate.git
export WASM_BUILD_TYPE=release
cd substrate
cargo build

•运行

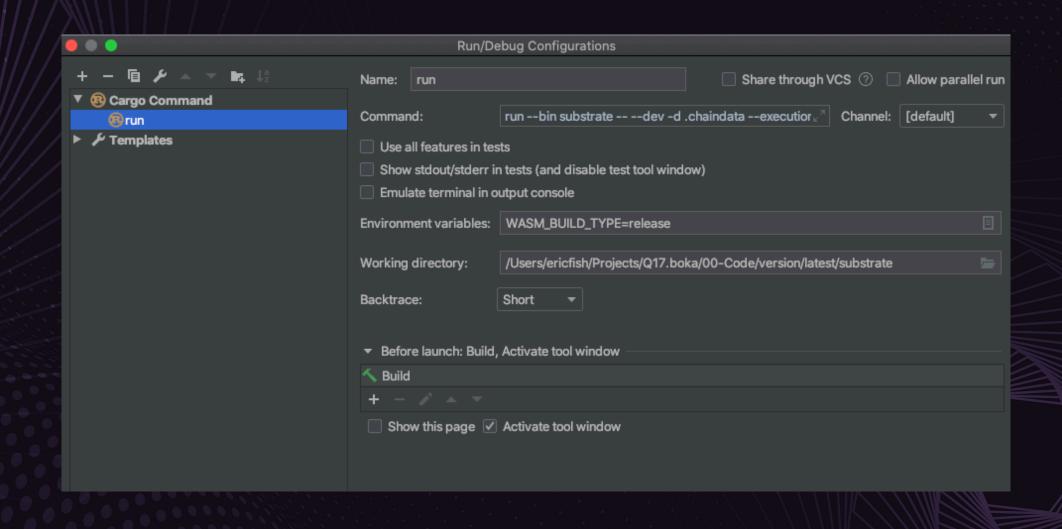
cargo run --bin substrate -- --dev -d .chaindata -execution=NativeElseWasm

• 删除数据

rm -rf .chaindata



DEBUG in CLion





@cana2018



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